This switch is designed for indoor use only. If you want to connect to a device located outdoors, the outdoor device must be properly grounded and surge protected, and you must install an Ethernet surge protector between the switch and the outdoor device. Failure to do so can damage the switch.

WARNING: This switch is designed for indoor use only. If you want to connect to a device located outdoors, the outdoor device must be properly grounded and surge protected, and you must install an Ethernet surge protector between the switch and the outdoor device. Failure to do so can damage the switch.

1. Connect devices to the RJ-45 ports (1–24) on the switch front panel.
2. Connect the switch to the Internet (The default switch IP address is 192.168.0.239.)
3. Power on the switch and wait two minutes.
4. Use the NETGEAR Insight app to discover the switch.
5. Log in to the device UI to configure the switch.

Sample connections

**Check the PoE status**

The switch can supply up to 30W PoE+ (IEEE 802.3at) to each port. The maximum PoE power budget across all active PoE+ ports is 190W for model GS728TPV2 and 380W for model GS728TPPV2.

The PoE Max LED indicates the status of the PoE budget on the switch:

- **Solid yellow**: Less than 7W of PoE power is available.
- **Blinking yellow**: At least once during the previous two minutes, less than 7W of PoE power was available.

**Discover the switch in your network**

Depending on your setup, you can use the NETGEAR Insight app to discover the switch IP address in your network, or you can use other discovery methods.

Use the NETGEAR Insight app to discover the switch

If your switch is connected to the Internet, you can use the NETGEAR Insight app to discover the switch IP address in your network. Regardless of your setup, you can use the Insight app to register the switch and activate your warranty. You can use the Insight app to discover your switch if:

- Your switch and mobile device are connected to the same network, you can use the Insight app to discover the switch IP address in your network.
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To use an SFP port, you must insert an SFP transceiver module, which you can purchase from NETGEAR.

Connect the switch

Use the NETGEAR Insight app to discover the switch

You can use the switch as a plug-and-play device or you can change the settings by logging in to the device user interface (UI).

1. Open a web browser from a computer connected to the same network as your switch.
2. In the address field of your web browser, enter the IP address of the switch.
3. To discover the IP address of the switch, use the NETGEAR Insight app or another discovery method. Use another method to discover the switch.
4. If the switch is connected to the Internet, the Register to activate your warranty page displays. However, if you already registered the switch with the Insight app, use the Device UI login page display, and you can continue with Step 4.

Log in to the device UI to configure the switch

Use another method to discover the switch

You can use the switch as a plug-and-play device or you can change the settings by logging in to the device user interface (UI).

1. Open a web browser from a computer connected to the same network as your switch.
2. Use a wired or Wi-Fi connection.
3. In the address field of your web browser, enter the IP address of the switch.
4. Discover the IP address of the switch, use the NETGEAR Insight app or another discovery method.

Log in to the device UI to configure the switch

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**Discover the switch in your network**

Depending on your setup, you can use the NETGEAR Insight app to discover the switch IP address in your network, or you can use other discovery methods.

Use the NETGEAR Insight app to discover the switch

You can use the switch as a plug-and-play device or you can change the settings by logging in to the device user interface (UI).

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Log in to the device UI to configure the switch

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5. If the switch is connected to the Internet, the Register to activate your warranty page displays. However, if you already registered the switch with the Insight app, use the Device UI login page display, and you can continue with Step 4.
Insight app, change the management mode in the device UI.

4. Click the Go button. The System Information page displays.

5. Select the Insight Navigation Mobile App and Insight Cloud Portal radio button. In the pop-up window, click the OK button.

6. Click the Apply button. In the pop-up window, click the OK button.

Your settings are saved.

PoE troubleshooting

Here are some tips for correcting PoE problems that might occur:

- If the PoE Max LED is solid yellow, disconnect one or more PoE devices to prevent PoE oversubscription.
- For each powered device (PD) that is connected to the switch, the associated PoE LED on the switch lights solid green. If the PoE LED lights solid yellow, a PoE fault occurred and PoE halted because of one of the conditions listed in the following table.

PoE Fault Condition

<table>
<thead>
<tr>
<th>Default Condition</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The PoE power demand of the PD exceeded the maximum level that the switch permits.</td>
<td>Restart the switch to see if the condition recurs. Check the condition of the PD, reset the PD by disconnecting and reconnecting the PD, or try another cable.</td>
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<tr>
<td>The PoE current on the port exceeded the classification limit of the PD.</td>
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<td>The PoE voltage is outside the range that the switch permits.</td>
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PoE considerations

The PoE and PoE+ power supplied by the switch is prioritized in ascending port order (from port 1 to port 24, with a total power budget of 190W for model GS728TPv2 and 380W for model GS728TPPv2). The following table shows the standard power ranges without overrides applied, calculated with the maximum cable length of 328 feet (100 meters). If a device receives insufficient PoE power from the switch, consider using a shorter cable.

<table>
<thead>
<tr>
<th>Device class</th>
<th>Compatible PoE standard</th>
<th>Class description</th>
<th>Maximum power supplied by the switch</th>
<th>Power delivered to the device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>IEEE802.3af (PoE)</td>
<td>Low power</td>
<td>15.4W</td>
<td>0.44W–3.84W</td>
</tr>
<tr>
<td>1</td>
<td>IEEE802.3at (PoE+)</td>
<td>Very low power</td>
<td>0.44W</td>
<td>0.44W–3.84W</td>
</tr>
<tr>
<td>2</td>
<td>IEEE802.3at (PoE+)</td>
<td>Low power</td>
<td>7.0W</td>
<td>3.84W–6.49W</td>
</tr>
<tr>
<td>3</td>
<td>IEEE802.3at (PoE+)</td>
<td>Mid power</td>
<td>15.4W</td>
<td>6.49W–9.52W</td>
</tr>
<tr>
<td>4</td>
<td>IEEE802.3at (PoE+)</td>
<td>High power</td>
<td>30.0W</td>
<td>12.95W–25.59W</td>
</tr>
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PoE troubleshooting

Here are some tips for correcting PoE problems that might occur:

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Regulatory and Legal

If a product is sold in Canada, you may find your serial number on a label located on the bottom of your device. You can use this serial number to access your warranty information and download software upgrades. See the regulatory compliance document before connecting the power supply. For regulatory compliance information including the EU Declaration of Conformity, visit https://www.netgear.com/about/regulatory/.

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